

0540
3/26 Jumbo



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/989,994

DATE: 11/26/2002 P.6

TIME: 13:52:59

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\11262002\I989994.raw

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3 <110> APPLICANT: LIU, Qiang
5 <120> TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
6   TRIPLETS BY ZINC FINGERS
8 <130> FILE REFERENCE: 8325-0011.20 / S11-US2
10 <140> CURRENT APPLICATION NUMBER: 09/989,994
11 <141> CURRENT FILING DATE: 2001-11-20
13 <160> NUMBER OF SEQ ID NOS: 4085
15 <170> SOFTWARE: PatentIn Ver. 2.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 25
19 <212> TYPE: PRT
20 <213> ORGANISM: Artificial Sequence
22 <220> FEATURE:
23 <223> OTHER INFORMATION: Description of Artificial Sequence: exemplary motif
25 <220> FEATURE:
26 <221> NAME/KEY: MOD_RES
27 <222> LOCATION: (2)..(5)
28 <223> OTHER INFORMATION: this region may encompass two to four residues
29   consisting of any amino acid
31 <220> FEATURE:
32 <221> NAME/KEY: MOD_RES
33 <222> LOCATION: (7)..(18)
34 <223> OTHER INFORMATION: any amino acid
36 <220> FEATURE:
37 <221> NAME/KEY: MOD_RES
38 <222> LOCATION: (20)..(24)
39 <223> OTHER INFORMATION: this region may encompass three to five residues
40   consisting of any amino acid
42 <400> SEQUENCE: 1
W--> 43 Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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47           20           25
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51 <211> LENGTH: 5
52 <212> TYPE: PRT
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55 <220> FEATURE:
56 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide linker
58 <400> SEQUENCE: 2
59 Thr Gly Glu Lys Pro
60   1           5
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64 <211> LENGTH: 5
65 <212> TYPE: PRT
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
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71 <400> SEQUENCE: 3
72 Gly Gly Gly Gly Ser
73   1               5
76 <210> SEQ ID NO: 4
77 <211> LENGTH: 8
78 <212> TYPE: PRT
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide linker
84 <400> SEQUENCE: 4
85 Gly Gly Arg Arg Gly Gly Gly Ser
86   1               5
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 9
91 <212> TYPE: PRT
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide linker
97 <400> SEQUENCE: 5
98 Leu Arg Gln Arg Asp Gly Glu Arg Pro
99   1               5
102 <210> SEQ ID NO: 6
103 <211> LENGTH: 12
104 <212> TYPE: PRT
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide linker
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111 Leu Arg Gln Lys Asp Gly Gly Gly Ser Glu Arg Pro
112   1               5               10
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117 <212> TYPE: PRT
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130 <212> TYPE: PRT
131 <213> ORGANISM: Artificial Sequence
133 <220> FEATURE:

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134 <223> OTHER INFORMATION: Description of Artificial Sequence: exemplary motif
136 <220> FEATURE:
137 <221> NAME/KEY: MOD_RES
138 <222> LOCATION: (2)..(5)
139 <223> OTHER INFORMATION: this region may encompass two to four residues
140     consisting of any amino acid
142 <220> FEATURE:
143 <221> NAME/KEY: MOD_RES
144 <222> LOCATION: (7)..(18)
145 <223> OTHER INFORMATION: any amino acid
147 <220> FEATURE:
148 <221> NAME/KEY: MOD_RES
149 <222> LOCATION: (20)..(24)
150 <223> OTHER INFORMATION: this region may encompass three to five residues
151     consisting of any amino acid
153 <400> SEQUENCE: 8
W--> 154 Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
      155 1             5             10             15
W--> 157 Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
      158             20             25
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162 <211> LENGTH: 30
163 <212> TYPE: PRT
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Artificial Sequence: mouse transcription
168     factor Zif268
170 <400> SEQUENCE: 9
171 Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp
172 1             5             10             15
174 Glu Leu Thr Arg His Ile Arg Ile His Thr Gly Gln Lys Pro
175             20             25             30
178 <210> SEQ ID NO: 10
179 <211> LENGTH: 28
180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Description of Artificial Sequence: mouse transcription
185     factor Zif268
187 <400> SEQUENCE: 10
188 Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp His Leu
189 1             5             10             15
191 Thr Thr His Ile Arg Thr His Thr Gly Glu Lys Pro
192             20             25
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196 <211> LENGTH: 27
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:

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201 <223> OTHER INFORMATION: Description of Artificial Sequence: mouse transcription
 202 factor Zif268
 204 <400> SEQUENCE: 11
 205 Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg
 206 1 5 10 15
 208 Lys Arg His Thr Lys Ile His Leu Arg Gln Lys
 209 20 25
 212 <210> SEQ ID NO: 12
 213 <211> LENGTH: 9
 214 <212> TYPE: DNA
 215 <213> ORGANISM: Artificial Sequence
 217 <220> FEATURE:
 218 <223> OTHER INFORMATION: Description of Artificial Sequence: target DNA
 220 <400> SEQUENCE: 12
 221 gcgtgggcg 9
 224 <210> SEQ ID NO: 13
 225 <211> LENGTH: 94
 226 <212> TYPE: PRT
 227 <213> ORGANISM: Artificial Sequence
 229 <220> FEATURE:
 230 <223> OTHER INFORMATION: Description of Artificial Sequence: Sp-1
 231 transcription factor
 233 <400> SEQUENCE: 13
 234 Pro Gly Lys Lys Lys Gln His Ile Cys His Ile Gln Gly Cys Gly Lys
 235 1 5 10 15
 237 Val Tyr Gly Lys Thr Ser His Leu Arg Ala His Leu Arg Trp His Thr
 238 20 25 30
 240 Gly Glu Arg Pro Phe Met Cys Thr Trp Ser Tyr Cys Gly Lys Arg Phe
 241 35 40 45
 243 Thr Arg Ser Asp Glu Leu Gln Arg His Lys Arg Thr His Thr Gly Glu
 244 50 55 60
 246 Lys Lys Phe Ala Cys Pro Glu Cys Pro Lys Arg Phe Met Arg Ser Asp
 247 65 70 75 80
 249 His Leu Ser Lys His Ile Lys Thr His Gln Asn Lys Lys Gly
 250 85 90
 253 <210> SEQ ID NO: 14
 254 <211> LENGTH: 9
 255 <212> TYPE: DNA
 256 <213> ORGANISM: Artificial Sequence
 258 <220> FEATURE:
 259 <223> OTHER INFORMATION: Description of Artificial Sequence: target DNA
 261 <400> SEQUENCE: 14
 262 ggggcgggg 9
 265 <210> SEQ ID NO: 15
 266 <211> LENGTH: 100
 267 <212> TYPE: PRT
 268 <213> ORGANISM: Artificial Sequence
 270 <220> FEATURE:
 271 <223> OTHER INFORMATION: Description of Artificial Sequence: Sp-1 consensus

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Input Set : A:\seqlist.txt

Output Set: N:\CRF4\11262002\I989994.raw

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272      sequence
274 <400> SEQUENCE: 15
275 Met Glu Lys Leu Arg Asn Gly Ser Gly Asp Pro Gly Lys Lys Lys Gln
276   1          5          10          15
278 His Ala Cys Pro Glu Cys Gly Lys Ser Phe Ser Lys Ser Ser His Leu
279          20          25          30
281 Arg Ala His Gln Arg Thr His Thr Gly Glu Arg Pro Tyr Lys Cys Pro
282          35          40          45
284 Glu Cys Gly Lys Ser Phe Ser Arg Ser Asp Glu Leu Gln Arg His Gln
285          50          55          60
287 Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Pro Glu Cys Gly Lys
288   65          70          75          80
290 Ser Phe Ser Arg Ser Asp His Leu Ser Lys His Gln Arg Thr His Gln
291          85          90          95
293 Asn Lys Lys Gly
294          100
297 <210> SEQ ID NO: 16
298 <211> LENGTH: 9
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: Sp-1 consensus
304      sequence
306 <400> SEQUENCE: 16
307 ggggcggggg
310 <210> SEQ ID NO: 17
311 <211> LENGTH: 9
312 <212> TYPE: DNA
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: Description of Artificial Sequence: example target
317      DNA
319 <400> SEQUENCE: 17
320 gcggggggcg
323 <210> SEQ ID NO: 18
324 <211> LENGTH: 9
325 <212> TYPE: DNA
326 <213> ORGANISM: Artificial Sequence
328 <220> FEATURE:
329 <223> OTHER INFORMATION: Description of Artificial Sequence: example target
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332 <400> SEQUENCE: 18
333 gcggggggcg
336 <210> SEQ ID NO: 19
337 <211> LENGTH: 9
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial Sequence
341 <220> FEATURE:
342 <223> OTHER INFORMATION: Description of Artificial Sequence: example target

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RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : A:\seqlist.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,3,4,5,7,8,9,10,11,12,13,14,15,16,17,18,20,21,22,23,24
Seq#:8; Xaa Pos. 2,3,4,5,7,8,9,10,11,12,13,14,15,16,17,18,20,21,22,23,24
Seq#:4013; Xaa Pos. 2,5,6
Seq#:4014; Xaa Pos. 2,5,6
Seq#:4015; Xaa Pos. 2,5,6
Seq#:4016; Xaa Pos. 2,5,6
Seq#:4017; Xaa Pos. 2,5,6
Seq#:4018; Xaa Pos. 2,5,6
Seq#:4019; Xaa Pos. 2,5,6
Seq#:4020; Xaa Pos. 2,5,6
Seq#:4021; Xaa Pos. 2,5,6
Seq#:4022; Xaa Pos. 2,5,6
Seq#:4023; Xaa Pos. 2,5,6
Seq#:4024; Xaa Pos. 2,5,6
Seq#:4025; Xaa Pos. 2,5,6
Seq#:4026; Xaa Pos. 2,5,6
Seq#:4027; Xaa Pos. 2,5,6
Seq#:4028; Xaa Pos. 2,5,6
Seq#:4029; Xaa Pos. 2,5,6
Seq#:4030; Xaa Pos. 2,5,6
Seq#:4031; Xaa Pos. 2,5,6
Seq#:4032; Xaa Pos. 2,5,6
Seq#:4033; Xaa Pos. 2,5,6
Seq#:4034; Xaa Pos. 2,5,6
Seq#:4035; Xaa Pos. 2,5,6
Seq#:4036; Xaa Pos. 2,5,6
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Seq#:4038; Xaa Pos. 2,5,6
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Seq#:4040; Xaa Pos. 2,5,6
Seq#:4041; Xaa Pos. 2,5,6
Seq#:4042; Xaa Pos. 2,5,6
Seq#:4043; Xaa Pos. 2,5,6
Seq#:4044; Xaa Pos. 2,5,6
Seq#:4045; Xaa Pos. 2,5,6
Seq#:4046; Xaa Pos. 2,5,6
Seq#:4047; Xaa Pos. 2,5,6
Seq#:4048; Xaa Pos. 2,5,6
Seq#:4049; Xaa Pos. 2,5,6
Seq#:4050; Xaa Pos. 2,5,6
Seq#:4051; Xaa Pos. 2,5,6
Seq#:4052; Xaa Pos. 2,5,6
Seq#:4053; Xaa Pos. 2,5,6
Seq#:4054; Xaa Pos. 2,5,6

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: **US/09/989,994**

DATE: 11/26/2002
TIME: 13:53:00

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\11262002\I989994.raw

Seq#:4055; Xaa Pos. 2,5,6
Seq#:4056; Xaa Pos. 2,5,6
Seq#:4057; Xaa Pos. 2,5,6
Seq#:4058; Xaa Pos. 2,5,6
Seq#:4059; Xaa Pos. 2,5,6
Seq#:4060; Xaa Pos. 2,5,6
Seq#:4061; Xaa Pos. 2,5,6
Seq#:4062; Xaa Pos. 2,5,6
Seq#:4063; Xaa Pos. 2,5,6
Seq#:4064; Xaa Pos. 2,5,6
Seq#:4065; Xaa Pos. 2,5,6
Seq#:4066; Xaa Pos. 2,5,6
Seq#:4067; Xaa Pos. 2,5,6
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Seq#:4069; Xaa Pos. 2,5,6
Seq#:4070; Xaa Pos. 2,5,6
Seq#:4071; Xaa Pos. 2,5,6
Seq#:4072; Xaa Pos. 2,5,6
Seq#:4073; Xaa Pos. 2,5,6
Seq#:4074; Xaa Pos. 2,5,6
Seq#:4075; Xaa Pos. 2,5,6
Seq#:4076; Xaa Pos. 2,5,6
Seq#:4077; Xaa Pos. 2,5,6
Seq#:4078; Xaa Pos. 2,5,6
Seq#:4079; Xaa Pos. 2,5,6
Seq#:4080; Xaa Pos. 2,5,6
Seq#:4081; Xaa Pos. 2,5,6
Seq#:4082; Xaa Pos. 2,5,6
Seq#:4083; Xaa Pos. 2,5,6
Seq#:4085; Xaa Pos. 4,6

VERIFICATION SUMMARY

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DATE: 11/26/2002

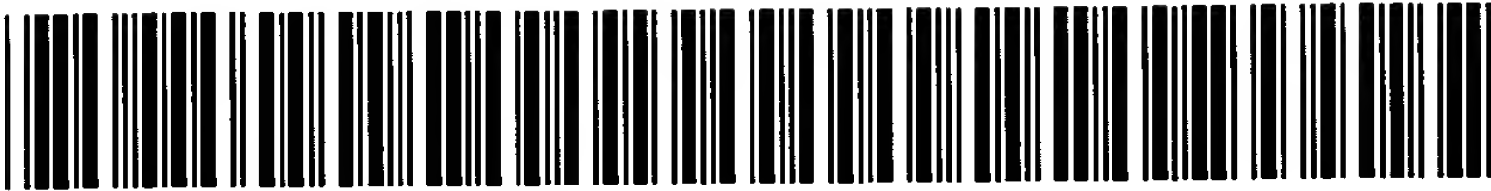
TIME: 13:53:00

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\11262002\I989994.raw

L:53292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4057 after pos.:0

L:53316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4058 after pos.:0



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Dossier: 09989994

Legal Date: 10-03-2003

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1	IDS	12

Total number of pages: 12

Remarks:

Order of re-scan issued on